



GBPC 15A/25A/35A SERIES

**HIGH CURRENT 15/25/35 AMPS.
SINGLE PHASE GLASS
PASSIVATED BRIDGE RECTIFIERS**

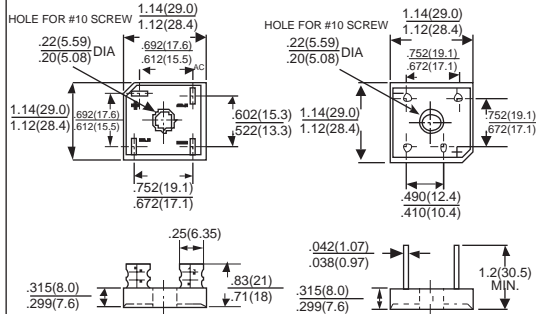
**Voltage Range
50 to 1000 Volts
Current
15.0/25.0/35.0 Amperes**

Features

- *The plastic material used carries Underwriters Laboratory Flammability Recognition 94V-0
- *Integrally molded heatsink provide very low thermal resistance for maximum heat dissipation
- *Surge overload ratings from 300 amperes to 400 amperes
- *Terminals solderable per mil-std-202, Method 208(For wire type)
- *Typical I_r less than 0.2uA
- *High temperature soldering guaranteed: 260°C/ 10 seconds/ .375"(.95mm) lead lengths(For wire type)
- *Isolated voltage from case to lead over 2500 volts

GBPC

GBPC-W



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%

Type Number		GBPC 15/25/35 005	GBPC 15/25/35 01	GBPC 15/25/35 02	GBPC 15/25/35 04	GBPC 15/25/35 06	GBPC 15/25/35 08	GBPC 15/25/35 10	UNITS
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ T _c = 55°C	I _{F(AV)}	GBPC15 GBPC25 GBPC35			15.0 25.0 35.0				A
Peak Forward Surge Current, Single Sine-wave Superimposed on Rated Load(JEDEC method)	I _{FSM}	GBPC15 GBPC25 GBPC35			300 300 400				A
Maximum Instantaneous Forward Voltage Drop Per Leg at Specified Current	V _F	GBPC15 7.5A GBPC25 12.5A GBPC35 17.5A			1.1				V
Maximum DC Reverse Current at Rated DC Blocking Voltage Per Leg	I _R				5				uA
Typical Thermal Resistance(Note 1)	R _{θJC}				1.5				°C/W
Operating and Storage Temperature Range	T _{J,TSTG}				-50 to +150				°C

NOTES: 1. Thermal Resistance from Junction to Case.
2. Suffix "W"-Wire Lead Structure/"M"-Terminal Location Face to Face.

RATING AND CHARACTERISTIC CURVES GBPC15/25/35 SERIES



FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

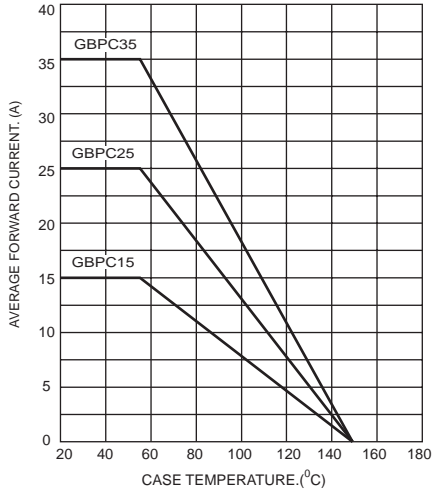


FIG.2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

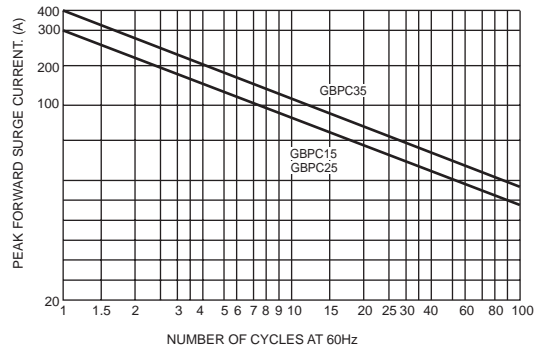


FIG.3-TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

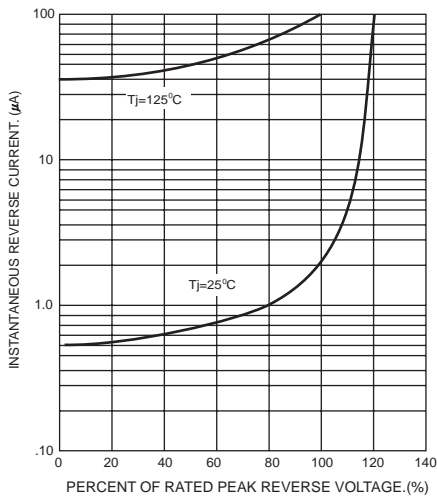


FIG.4- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

